

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

CERAMIC FUEL CELLS LIMITED et al

PCT NOTIFICATION OF TRANSMITTAL OF Davies Collison Cave INTERNATIONAL PRELIMINARY EXAMINATION Level 15 REPORT 1 Nicholson Street **MELBOURNE VIC 3000** (PCT Rule 71.1) Date of mailing - 3 AUG 2004 day/month/year Applicant's or agent's file reference IMPORTANT NOTIFICATION 12208720/JCC International Application No. International Filing Date Priority Date PCT/AU2003/000479 22 April 2003 23 April 2002 Applicant

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12208720/JCC	FOR FURTHER ACTION	and the state of t				
International Application No.	International Filing Dat (day/month/year)	е	Priority Date (day/month/year)			
PCT/AU2003/000479	22 April 2003	23 April 2002				
International Patent Classification (IPC) or	national classification an	d IPC				
Int. Cl. 7 H01M 8/00, 8/04, C01B 3/22	2, 3/24, 2/26	•				
Applicant CERAMIC FUEL CELLS LIMIT						
CERAINIC FUEL CELLS LIMIT	IED et al					
		•				
This international preliminary examinat is transmitted to the applicant according	ion report has been prepa to Article 36.	ared by this Internati	ional Preliminary Examining Authority and			
2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total o	f sheet(s).					
3. This report contains indications relating	to the following items:					
I X Basis of the report						
II Priority	Priority					
III Non-establishment of opi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of invention	1					
V Reasoned statement under citations and explanations	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited						
VII Certain defects in the inte	ernational application					
VIII Certain observations on the	ns on the international application					
Date of submission of the demand	· D	ate of completion of	the report			
21 October-2003	1	Date of completion of the report 30 July-2004				
Name and mailing address of the IPEA/AU	Aı	Authorized Officer				
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALI E-mail address: pct@ipaustralia.gov.au	IA					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2003/000479

I.	Basis of the report						
1.							
	$[\overline{X}]$ the international application as originally filed.						
	the description, pages, as originally filed,						
	pages, filed with the demand,						
	pages, received on with the letter of						
	the claims, pages, as originally filed,						
	pages, as amended (together with any statement) under Article 19,						
	pages, filed with the demand,						
	pages, received on with the letter of						
	the drawings, pages, as originally filed,						
	pages, filed with the demand,						
	pages, received on with the letter of						
	the sequence listing part of the description:						
	pages , as originally filed						
	pages , filed with the demand						
	pages, received on with the letter of						
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).						
	the language of publication of the international application (under Rule 48.3(b)).						
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).						
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	contained in the international application in written form.						
	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form.						
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished						
4.	The amendments have resulted in the cancellation of:						
	the description, pages						
-	the claims, Nos.						
	the drawings, sheets/fig.						
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this						
••	report as originally filed and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
	Any replacement sheet containing such amendments must be referred to under item I and annexed to this report						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU2003/000479

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement				_
	Novelty (N)	Claims	4, 6-7, 10, 15	YES	
		Claims	1-3, 5, 8-9, 11-14	NO	
	Inventive step (IS)	Claims	1-3, 5, 8-9, 11-14	YES	
		Claims	4, 6-7, 10, 15	NO	
	Industrial applicability (IA)	Claims	1-15	YES	
		Claims		NO	

2. Citations and explanations (Rule 70.7)

The claims are not novel and lack an inventive step regarding the following citations:

D1: DE 10019548 A (Jeschke G) 31 October 2001

D2: US 5795666 A (Johnssen) 18 August 1998

D3: Derwent Abstract Accession No. 2001-451664/48, Class E36, H06, L03, (H08)

WO 2001/044412 A (Idemitsu Kosan Co. Ltd.), 21 June 2001

D4: WO 2000/039873 A (INTERNATIONAL FUEL CELLS, LLC) 6 July 2000

D1-D2 claims 1-2, 5, 8-9, 11-13

These documents disclose processes for the production of hydrogen for the use in fuel cells wherein, the starting material are either chosen from a biomass or plant oil, that are essentially free of organic sulfur-containing compounds.

D3 claims 1-2, 5, 9, 11-13

This document discloses a fuel oil for fuel cells wherein, a fuel oil having a sulfur content of ≤ 0.5 weight ppm is used.

D4 claims 1-3, 5, 9, 11-14

This document discloses a fuel gas processing system used to power a fuel cell power plant. A source of sulfur free fuel is used wherein, the fuel containing initial high levels of organic sulfur, is firstly passed through a nickel reactant desulfurizer before being passed into the power plant.